

Work Order ID 55703

January 28, 2010 9:58:56 AM



Page 1

Item ID: D119-696-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual Cargo Mirror Installation

Start Date: 1/29/2010 Start Qty: 4.00



Cust Item ID:

Required Date: 2/8/2010 Req'd Qty: 4.00

Customer:

Reference:

Run Start



Approvals: Process Plan: 10-1-28 Date: MF

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

N/A

Rev U/R

OK CP 10-01-28

0.00

100



DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile & type labels per PPP D119-696-013

CHG004

0.00

0.00

110



Packaging

Packaging

Packaging

Memo

0.00

10-2-17

SP

120



QC

Quality Control

QC4- 100% Inspect kits for completeness

Memo

0.00

0.00

10-2-17

SP

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 55703

January 28, 2010 9:58:56 AM



Page 2

Item ID: D119-696-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual Cargo Mirror Installation

Start Date: 1/29/2010 Start Qty: 4.00



Cust Item ID:

Required Date: 2/8/2010 Req'd Qty: 4.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

0.00



Packaging

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D119-696-013

Location:

PPP Rev: E

140

0.00



QC

QC21- Final Inspection - Work Order Release

Memo

Quality Control

1/24/12 (4)

10/02/18

MF
10-2-17

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

January 28, 2010 9:58:55 AM

Page 1

Work Order ID: 55703

Parent Item: D119-696-013

Parent Item Name: Dual Cargo Mirror Installation

Start Date: 1/29/2010

Required Date: 2/8/2010

Comments: IPP Rev: A08-02-19 New issue HDD verified by: LL

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

ALS4-1032-130	X2	Purchased	No				Each	2,371.000	8.0000			
---------------	----	-----------	----	--	--	--	------	-----------	--------	--	--	--

Insert QS1 017 4.22 5.106217
A11XX

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

2371

110511

2371

Each

55.0000

16.0000

8

10-2-17 M113928 9

AN526-1032R9	X4	Purchased	No				Each	55.0000	16.0000			
--------------	----	-----------	----	--	--	--	------	---------	---------	--	--	--

Screw

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

55

101189

6

110584

5

111758

44

Each

0.0000

16.0000

7

M113288 10-2-17

QS1 017

AN5114900363

AN960JD10

Washer

D119-696-043

Manufactured No

Each

0.0000

4.0000

Dual Cargo Mirror Assy

SUR TABUITE PHG 3

55702 10-2-17

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

January 28, 2010 9:58:55 AM

Work Order ID: 55703

Parent Item: D119-696-013

Parent Item Name: Dual Cargo Mirror Installation

Start Date: 1/29/2010

Required Date: 2/8/2010

Comments: IPP Rev: A1108-02-19 New issue LDD verified by: LL

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D2053		Manufactured	No				Each	23.0000	4.0000			
-------	--	--------------	----	--	--	--	------	---------	--------	--	--	--



Mounting Bracket

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST005

23

38531

1

47595

22

Each

36.0000

4.0000

D2067



Connector

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST006

1

39558

1

Main Warehouse

ST0

35

54698

35

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

January 28, 2010 9:58:55 AM

Work Order ID: 55703

Parent Item: D119-696-013

Parent Item Name: Dual Cargo Mirror Installation

Start Date: 1/29/2010

Required Date: 2/8/2010

Comments: IPP Rev: A 08-02-19 New issue ☐ DD verified by: LL

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D2071		Manufactured	No				Each	11.0000	4.0000			
-------	--	--------------	----	--	--	--	------	---------	--------	--	--	--



Cable Assembly

10-2-17

SL

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST

11

47601

1

54777

10

Each

14.0000

4.0000

4

10-2-17 SL

D3083-1



Placard

Manufactured No

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST

14

47605

4

47686

10

Each

49.0000

8.0000

4

10-2-17

SL @

MS21919-DG5



Clamp

Purchased No

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST

49

110916

49

8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

January 28, 2010 9:58:55 AM

Work Order ID: 55703



Parent Item: D119-696-013



Parent Item Name: Dual Cargo Mirror Installation

Start Date: 1/29/2010

Required Date: 2/8/2010

Comments: IPP Rev:A 08-02-19 New issue DD verified by: LL

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

MS27039-1-09	*4	Purchased	No				Each	741.0000	16.0000			
--------------	----	-----------	----	--	--	--	------	----------	---------	--	--	--



Screw

10-2-17 SL

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST	741	
107378	23	
111650	480	
18057	205	
8912	33	

16

MS35489-9

*1

Purchased

No

Each

108.0000

4.0000



Grommet

10-2-17

SL (42)

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST	108	
107376	28	
109371	80	

4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

25.2 CARGO MIRROR REMOVAL

1. Loosen MS21042-3 nut and remove D2071 control cable from D2067 connector.
2. Remove (4) MS27039-1-09 screws and remove D3072-1/-2 brackets. Re-install MS27039-1-08 screws.
3. Remove (2) AN526-1032R9 screws and (2) MS21919DG5 clamps.
4. Remove (2) AN526-1032R9 screws, the D2053 bracket and the D2071 cable assembly. Re-install AN526-1032R9 screws to plug inserts.
5. Seal MS35489-9 grommet hole with PRC / RTV / Proseal 890 / Sikaflex-241 / Sikaflex-291 / MIL-C-8802 Class B2 sealant.

25.3 WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D119-696-011	2.2 lb	7.0 in	15.4 in-lb	22.0 in	48.4 in-lb
Cargo Mirror Installation	1.00 kg	0.28 m	0.28 m-kg	0.87 m	0.87 m-kg
D119-696-013	3.0 lb	1.0 in	3.0 in-lb	22.0 in	66.0 in-lb
Cargo Mirror Installation	1.36 kg	0.04 m	0.05 m-kg	0.87 m	1.18 m-kg

25.4 PARTS LIST

Qty -011	Qty -013	Qty -041	Qty -043	Part Number	Description
X				D119-696-011	SINGLE CARGO MIRROR INSTALLATION
	X			D119-696-013	DUAL CARGO MIRROR INSTALLATION
1		X		D119-696-041	SINGLE CARGO MIRROR ASSEMBLY
	1		X	D119-696-043	DUAL CARGO MIRROR ASSEMBLY
		1	2	D2011-101	MIRROR ASSEMBLY
1	1			D2053	BRACKET
		2	2	D2054	BUSHING
		2	2	D2055	CLAMP
		1	1	D2056	BELL CRANK
		1		D2057	PLUG
1	1			D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	2	*D3014-1	LOCKNUT
		1	1	D3072-1	BRACKET
		1	1	D3072-2	BRACKET
		1		D3074-1	ARM
			1	D3074-3	ARM
1	1			D3083-1	PLACARD
4	4			AN526-1032R9	SCREW
4	4	6	6	AN960JD10	WASHER
		1	2	*AN960JD416L	WASHER
		3	3	MS21042L3	NUT (or MS21042-3)
2	2			MS21919DG5	CLAMP
4	4			MS27039-1-09	SCREW
		3	3	MS27039-1-18	SCREW
1	1			MS35489-9	GROMMET
2	2			AKS7-1032-130	INSERT (or ALS7-1032-130 or AKS4-1032-130 or ALS7-1032-130 or AELS-032-130)

*INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

• COPYRIGHT © 2001 BY DART AEROSPACE USA, INC. •
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED, OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

25-00-00

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries